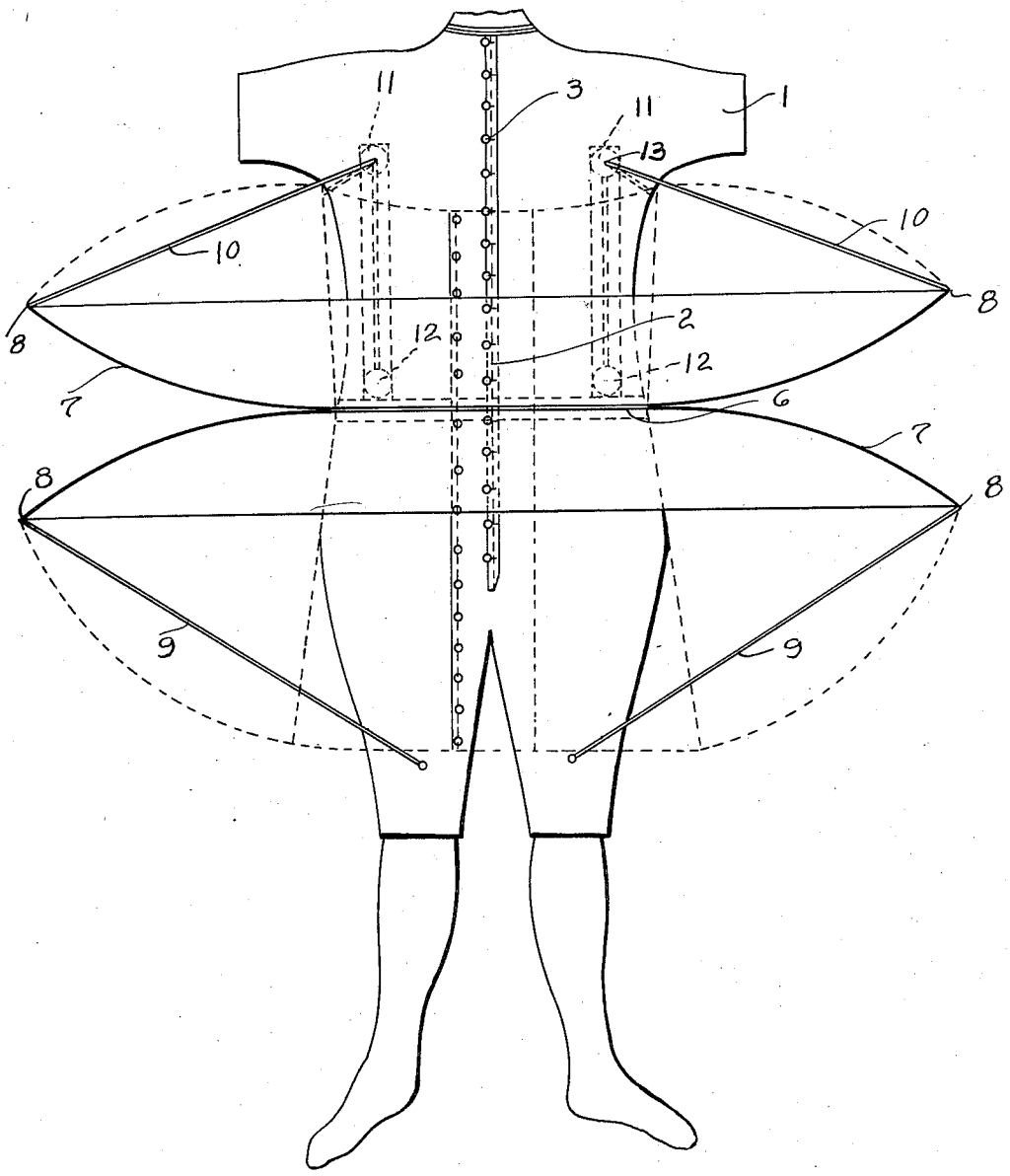
D. W. OGILVIE.

AERIAL LIFE SAVING DEVICE.

APPLICATION FILED MAR. 13, 1913.

1,110,710. Patented Sept. 15, 1914.



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DAVID WILLIAMS OGILVIE, OF BALBOA, CANAL ZONE.

AERIAL LIFE-SAVING DEVICE.

1,110,710. Specification of Letters Patent. Patented Sept. 15, 1914.

Application filed March 13, 1913. Serial No. 754,080.

To all whom it may concern:

Be it known that I, DAVID W. OGILVIE, a subject of the King of England, residing at Balboa, in the Canal Zone, have invented certain new and useful Improvements in Aerial Life-Saving Devices, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in aerial life saving devices and has relation more particularly to a device of this general character of a parachute type; and the object of the invention is to provide a device of this general character having novel and improved means which can be worn as a part of the clothing of an aviator or one subject to danger from falling.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved aerial life saving device whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will be carefully defined in the appended claims.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein is shown a view in elevation of a life saving apparatus constructed in accordance with an embodiment of my invention, the parachute members being shown in operative positions.

As disclosed in the accompanying drawings, 1 denotes a garment of a union type adapted to extend from the neck of the wearer to substantially the knees and having the nether portion provided with a conventional opening 2 whereby the garment may be applied to a person with convenience and facility, the opposite marginal portions being provided with coacting retaining means, as indicated at 3.

Secured to the waist-line of the garment, as indicated at 6, are the superimposed reversely related parachute sections or members 7—7 of predetermined dimensions, the inner marginal portions of such parachute members or sections overlapping so that a connection of increased strength may be had with the garment 1 proper. Suitably secured to the outer marginal portions of each of the parachute members or sections are the sectional or segmental strips 8 preferably formed of aluminum and to which are anchored the outer ends of the flexible connections 9 and 10. The flexible connections 9 coöperate with the lower parachute member or section 7 and have their inner extremities suitably connected to the nether portions of the garment 1 at a point preferably in close proximity to the knees. I do not wish to be understood as limiting myself to any particular manner in which the flexible members 9 may engage with the garment 1 as I only desire to effect such connection in a manner possessing a maximum of strength.

To the under surface or face of the body portion of the garment 1 at predetermined localities are positioned the vertically disposed elongated housings or boxings 11 formed of any desired material but preferably of aluminum and loosely positioned within each of such housings or boxings 11 is the weighted member 12, preferably spherical in form. While this member 12 may be produced of any material which may be employed to advantage, I find it of advantage to form such body from lignum-vitæ. To each of these bodies 12 is secured the inner extremity of the flexible members 10 which are directed through suitable openings 13 produced in the body portion of the garment adjacent the upper extremity of the coacting housing or boxing 11, such bodies 12 serving to maintain the upper parachute section or member 7 in close proximity to the body portion of the garment 1. The lower parachute member or section 7 is adapted to fold or lie in close proximity to the nether portion of the garment somewhat after the fashion of a skirt. It is thought to be obvious, in view of the foregoing, that should the aviator or the like fall and if his descent is feet first the lower parachute member or section will serve to break his fall and if his descent should be head first, the upper parachute member or section will serve for a similar purpose.

From the foregoing description, it is thought to be obvious that an aerial life saving apparatus constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and by reason of the effectiveness with which it performs its func-

tions, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice.

Having thus fully described my invention what I desire to claim and secure by Letters Patent is:

1. A device of the character described including a garment, reversely related parachute members secured to the garment at substantially the waist-line thereof, and means interposed between the outer marginal portions of the parachute members and the garment for limiting the movement of such members away from the garment.

2. A device of the character described including a garment, reversely related parachute members secured to the garment at substantially the waist-line thereof, and means interposed between the outer marginal portions of the parachute members and the garment for limiting the movement of such members away from the garment, certain of such means being slidably engaged with the garment.

3. A device of the character described including a garment, a parachute member secured thereto, vertically disposed housings carried by the garment, weighted members freely movable within the housings, and flexible connections between such weighted members and the marginal portions of the parachute.

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